SANTA CRUZ BIOTECHNOLOGY, INC.

CCDC77 (P-20): sc-246191



BACKGROUND

The coiled-coil domain is a structural motif found in proteins that are involved in a diverse array of biological functions such as the regulation of gene expression, cell division, membrane fusion and drug extrusion and delivery. CCDC77 (coiled-coil domain-containing protein 77) is a 488 amino acid protein that that is encoded by a gene that maps to human chromosome 12p13.33. Encoding over 1,100 genes, chromosome 12 comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

- Allen, T.L., et al. 1996. Cytogenetic and molecular analysis in trisomy 12p. Am. J. Med. Genet. 63: 250-256.
- Gilbert, F. and Kauff, N. 2000. Disease genes and chromosomes: disease maps of the human genome. Chromosome 12. Genet. Test. 4: 319-333.
- Montgomery, K.T., et al. 2001. A high-resolution map of human chromosome 12. Nature 409: 945-946.
- 4. Mason, J.M. and Arndt, K.M. 2004. Coiled coil domains: stability, specificity, and biological implications. Chembiochem 5: 170-176.
- 5. Ota, T., et al. 2004. Complete sequencing and characterization of 21,243 full-length human cDNAs. Nat. Genet. 36: 40-45.
- 6. Riaz, N., et al. 2005. Genomewide significant linkage to stuttering on chromosome 12. Am. J. Hum. Genet. 76: 647-651.
- Scherer, S.E., et al. 2006. The finished DNA sequence of human chromosome 12. Nature 440: 346-351.
- Liu, J., et al. 2006. A seven-helix coiled coil. Proc. Natl. Acad. Sci. USA 103: 15457-15462.

CHROMOSOMAL LOCATION

Genetic locus: CCDC77 (human) mapping to 12p13.33.

SOURCE

CCDC77 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CCDC77 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-246191 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

CCDC77 (P-20) is recommended for detection of CCDC77 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other CCDC family members.

Suitable for use as control antibody for CCDC77 siRNA (h): sc-96085, CCDC77 shRNA Plasmid (h): sc-96085-SH and CCDC77 shRNA (h) Lentiviral Particles: sc-96085-V.

Molecular Weight of CCDC77: 57 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.